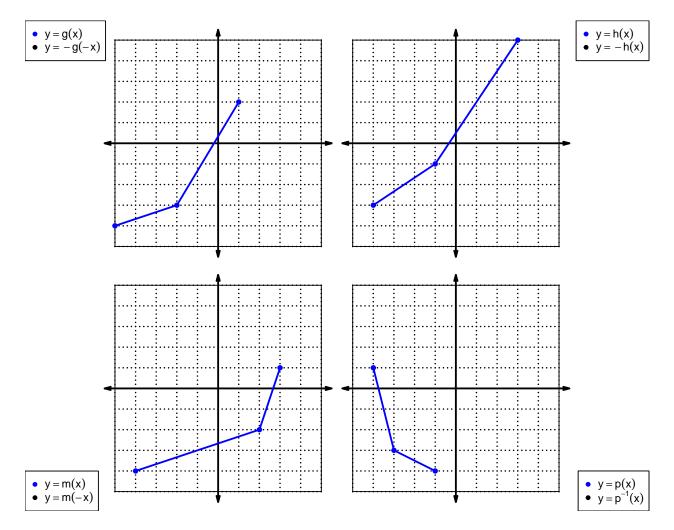
1. Let function f be defined by the polynomial below:

$$f(x) = 4x^4 - 7x^3 + 3x^2 - 9x - 6$$

Draw lines that match each function reflection with its polynomial:

Reflections	Polynomials	
-f(-x) •	$\bullet -4x^4 - 7x^3 - 3x^2 - 9x + 6$	
f(−x) •	\bullet $-4x^4+7x^3-3x^2+9x+6$	

2. In each xy plane shown below, a function is graphed with blue. Draw the indicated reflections (as a second curve, indicated in legend) with black (or with whatever you have). The x axis is horizontal and the y axis is vertical (as typical), and the scale is equal on both axes.



For all questions on this page, the functions f, g, and h are defined by the table below.

x	f(x)	g(x)	h(x)
1	5	9	4
2	4	1	3
3	6	5	7
4	9	3	5
5	2	7	9
6	7	4	1
7	1	2	8
8	8	8	6
9	3	6	2

3. Evaluate f(1).

4. Evaluate $g^{-1}(6)$.

5. Assuming g is an **odd** function, evaluate g(-8).

6. Assuming h is an **even** function, evaluate h(-4).

7. A function, f, is **even** if f(x) = f(-x) for all x in the domain. A function, g, is **odd** if g(x) = -g(-x) for all x in the domain.

Let polynomial p be defined with the following equation:

$$p(x) = -x^3 + 1$$

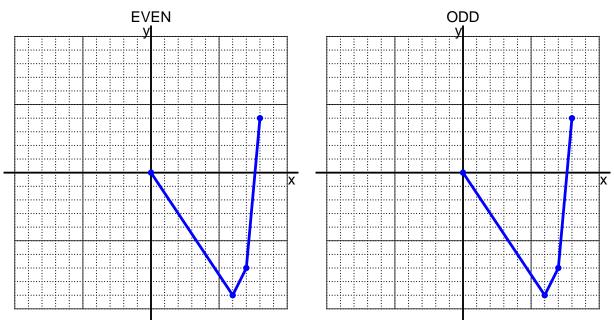
a. Express p(-x) as a polynomial in standard form.

b. Express -p(-x) as a polynomial in standard form.

c. Is polynomial p even, odd, or neither?

d. Explain how you know the answer to part c.

8. I have drawn half of a function. Draw the other half to make it even or odd.



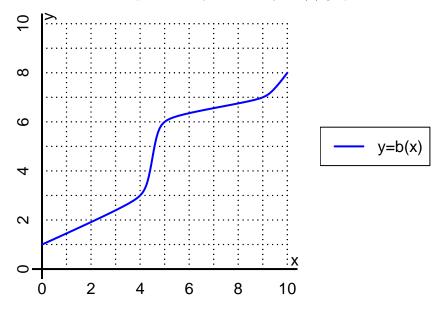
9. Let function f be defined with the equation below.

$$f(x) = \frac{x}{4} - 5$$

a. Evaluate f(76).

b. Evaluate $f^{-1}(18)$.

10. The function b is represented by the curve y = b(x) graphed below.



a. Evaluate b(4).

b. Evaluate $b^{-1}(7)$.

- 11. Function f is defined by the table below.
 - a. Complete the columns for -f(x) and f(-x) and -f(-x).

x	f(x)	-f(x)	f(-x)	-f(-x)
-2	-8			
-1	5			
0	0			
1	-5			
2	8			

b. Is function f even, odd, or neither?

c. How do you know the answer to part b?